

Panama 1971

Clu



MEMOS

19¢

32 SHEETS • SIZE 6 IN. x 4 IN.

No. 204404

Mfd. for McCORMY-McLELLAN - GREEN STORES  
YORK, PA. 17402

Panamá (1971)

collections made by

Cleo E. Volkow and  
Robert Dressler

Cleo

*Boerhaavia totoralis* 2m. 1/2  
*Orthocladia lora* (2 " )  
*Streptocarpus* (1. side of the ridge)  
*Platanus* (B. lora) 2 fl.  
*Streptocarpus* solidus 2 fl.  
*Streptocarpus* 2  
*Platanus* (B. lora) 1 fl.  
*Boerhaavia panamensis* 4 fl.  
*Streptocarpus* dignus (B. lora) 2  
*Nachodora* (B. lora) 2, 1, 2.  
*Panicum* 1<sup>st</sup> B. lora 1 fl.  
*Boerhaavia* 4 fl. 3  
*Streptocarpus* sp. 1<sup>st</sup> B. lora 1 fl.  
*Streptocarpus* solidus B. lora 1 fl. 2 fl. ridge.  
*Panicum* 2<sup>nd</sup> 1 ridge of 1 fl.  
*Boerhaavia* 1 fl.  
*Streptocarpus* sp. B. lora 1  
*Platanus* duco B. lora 1  
*Bambusa* lora 1  
*Streptocarpus* solidus (lora) 1  
 njama

Thysanotus anther 1

Pharisma 2

Berni (all)

Thysanotus radiatus, Berni, 3

Macclurea 4

Thysanotus, Berni, 5

Macclurea 6

Islandella 7

Thysanotus 8

Macclurea 9

Thysanotus chipmunk 10

Thysanotus 11

Arteria 12

Pariana 13

Macclurea 14

Lithospermum 15

Thysanotus 16

~~Thysanotus~~ 17

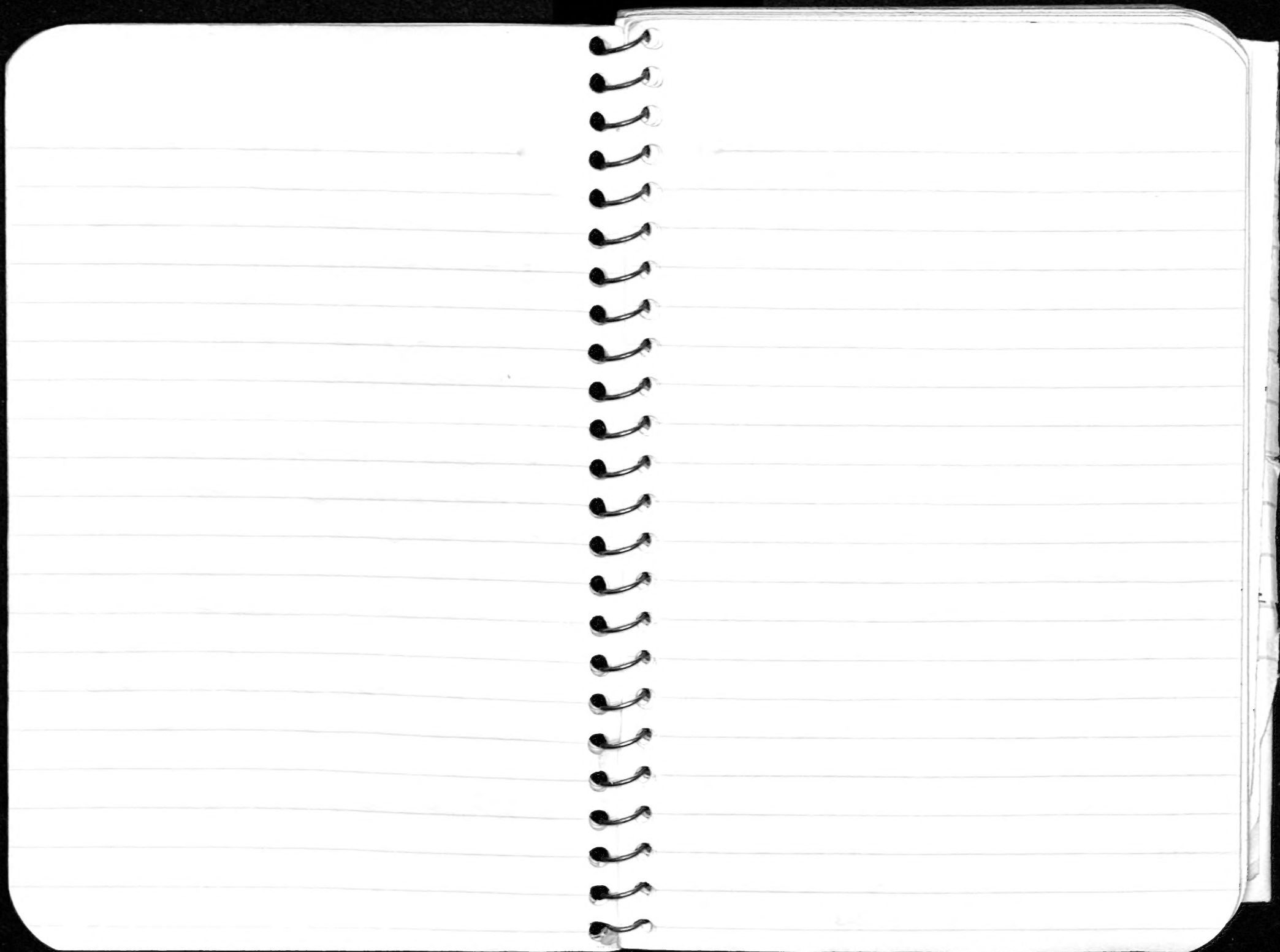
Pariana, 18 (2 f. Rita)

Pharus chion 19

Thysanotus 20



*Cyrtocarpus* 21  
*Aseria* 22  
*Strobil. cuneata* 23  
*Alsea* 24  
*Macleania* 25  
*Chaptalia* 26  
*Abutilon* 27  
*Macleania* 28  
*Chaptalia*, var. 29  
*Polygonum* 30  
*Proraria* 31  
*Proraria* 32  
*Chaptalia* 1<sup>st</sup> 33  
" " " 34  
*Cryptantha* 35  
*Alsea* 36  
" 37  
*Cryptantha* 38  
" " " 39



B. E. Calderon and R. Dressler.

Oct. 21, 1971

↑  
2124

Cryptochloa sp.

Panamá, Prov. of Panamá,  
5 Km NE of Cerro Jefe,  
"La Enciso".

alt: 800 m.s.m.

Small clumps scattered in  
forest, in a smooth slope  
and along sides of a creek.  
Some plants with ~~white~~ axillary  
surface of blades dark wine  
color. (There are mixed  
both kinds of plants in  
my herbarium specimens.)

Photo: 5 x w. roll #1 - few  
(rain) Helen also took some  
with color film and flash.

Fixed material

FAA = sp. l., leaves - 514 10cc

Boig: leaves - 515 10 cc  
~~3-1-207~~

2121

Oct. 21, 1971

~~2122~~

Panamá, Prov. Panamá, Cerro  
Jepe, (Dressler's garden) near the  
alt: 800 ? m. <sup>beginning of the road to</sup> Cerro Jepe  
Bamboo Antoneuma ? CEC.

Climbing bamboo

FAA: leaves - #520

*Olyra taguara* Swallen rel. off.

K 2122

~~2123~~

(name tag)

Cerro Jefe -

*Panicum* sp. (sterile)

(*Panicum misteriosa*)

Large clumps near the road. Plants with no flowers. These plants have not bloom for several years. Collected in 1968 sterile. Drenler has been watching this clump and never has seen in bloom.

Rhizome collected -

Some plants with variegated leaves -

no fixed material

K, MO, NY, P

2123

~~2124~~

*Olyra stanley*

~~near~~ Panams', Prov. de Panama  
Cerro Jefe.

Fixed material:

FAA: (2 vials) a) <sup>516</sup> leaves, culms  
and shoot apex; b) <sup>517</sup> inflorescence.

Boog: ♀ sp. - 512

3:1: inflorescence. 519 (♂ + ♀ sp.)

Photo: b & w - roll # 1? no



October 23, 1971

2125

Panamá, Prov. Panamá, Cerro  
La Campana.

Cryptochloa sp.

Fixed material:

FAA: leaves, inflorescence - 521

Living plant: collected (in B. Rees)

Not very abundant, small  
clumps in shady places of  
the forest

2126

*Lehmannanthus*

Panamá, Prov. de Panamá  
Cerro Campana.

Fixed material

FAA: 1 nat: leaves, inflorescence  
V522

Oct. 23, 1972 2127  
Panama, Prov. Panama, Cerro  
Campaña  
Pharus sp.

Living plant: collected  
FAA: 1 set. Leaves 523

Bambusa vulgaris, ~~formosa~~  
forma nitida R. & C. Riviere

2128  
~~Bambusa~~ Panama, Prov. of Panama  
Campaña, Cerro Campaña

Bambusa. (cultivated?)

FAA: 1 set with leaves 524

Oct 23, 1972

~~Oct 23~~

Oct. 23, 1972

2129

Panamá, Prov. de Panamá

Cerro Campana

Olyra lateralis

no fixed material

300 m a.s.l.

Oct. 27, 1972

2130

Macdurelya tecto

Panamá, Prov. de Panamá

Colón, Santa Rita, ca. 10

Km E of the carretera  
Transistmica.

79° 45' long. West

9° 21' lat. North

Alt.: 300 m. s. m.

Living plant: collected

Fixed material

FAA 2 vials: a) leaves, inflorescences  
and?

b) seedlings (~~all dead~~)

3:1 : inflorescences.

Photo: b & w only roll # 1

Frequent in shady places of the  
forest, ~~the~~ The original

Eleon  
300m.

type locality was cut down.  
Scattered plants of *Medicago*  
are still growing there.  
They were ~~small~~ small plants  
and only few with flowers.  
Not far from that place, on  
the southernmost point plants  
were growing well; most  
of them in the sun here. These  
were more taller and  
robust. Many seedlings  
around clumps.



2131

Panamá, Prov. Colón, Santa Rita,  $\pm$  10 km E of the carretera Transistmice.  
Cryptochloa sp.

Living plant: collected.

FAA: leaves, inflorescence.

Common in the forest, in many places assoc. with Macclurotypa.

2132

same day & locality

Macclurotypa secta

seedlings - (photographed) (in manuscript)

2133

Samana, Prov. Colon, Santa  
Rita,  $\pm 10$  km E of the  
Carretera Transisthmica.  
Pariana sp.

Fixed material

FAA. 1 vial: leaves, infloresc.

3:1: 1 vial with inflorescences

Living plant: collected.

2134

Oct. 27, 1972

Samana, Prov. of Colon, Santa  
Rita,  $\approx 5$  km E of the Carre-  
tera Transisthmica.

$\approx 79^{\circ} 45'$  long West

$9^{\circ} 21'$  lat. North

alt: 200 - 250 m.  $\pm$  m

Eupptochloe (Pennis type)

Living plant: collected

FAA: leaves & inflorescences.

Small, succulent plants  
growing on a bank, humid  
slope, rocky slope.

Oct. 27

2135

Panamá, Prov. of Colón, Santa  
Rita,  $\pm 5$  km E of the  
Carretera Transistmice -  
~~at~~  $\pm 79^{\circ} 45'$  long. West  
 $9^{\circ} 21'$  lat. North.

alt:  $\pm 200 - 250$  m. s. m.

Elyptochloa Dressleri

Photos. 5 x W - roll 4

Living plant: collected

Fixed mat:

FAA = leaves + infl. 2

3:1 = infloresc. 2

Borgnet = infl.?

FAA = Seedling growing from  
spikelet ①

Oct. 27, 1974

2136

Panamá, Province of Colón  
Santa Rita, ± 5 km E of the  
Carretera Transistmica.

79° 45' long west

9° 21' lat. north

alt. 200 - 250 m. s. m.

Panama sp.

Large clumps in bloom. Inflo-  
rescence in a separate shoot.

Photo: ? b. w. roll #1 2136

Fixed material: FRA leaves &  
infloresc. (Vial with inf. fixed. 1 day after  
collected - 12/1/74)

3:1 - inflorescences 2 "

Bong: " ?

October 29, 1971

2137

Panama, Province of Panama  
Cerro Jefe.

to

Cryptochloa sp.

Growing in shady places  
of forest associated with  
Macaranga trees.

FAA: incl. base and inflo-  
rescences.

Photo: 6 x w. with WAP #2



Oct. 29, 1972

2138

Panamá, Prov. de Panamá  
Cerro Jefe.

*Macdunolya tenuis*.

In forest. Dark places.  
some in smooth slopes  
associated with the cryptochloa.  
sp -

Photo: b & w roll # 2 associated  
with the cryptochloa.

no fixed material.

Oct. 29, 1972

2139

Panamá, Province of Panamá  
Cerro Jefe, near the begi-  
ning of the road to the  
cerro.

*Olyra latensalis*

living plant: collected

Photo: b & w roll # 3

Fixed material:

F.A.A. leaves, . spml (♀)

3:1 = ♂ spml.

Oct. 29, 1877.

2140

Panama, Prov. of Panama  
Cerro Zape, near the beginning  
of the road to the cerro.

Besleria Rhipidocladum

Fixed material: FAA. leaves.

Sugar cane

Panama, Prov. of Panama  
Road to Cerro Jefe -  
(cultivated)

FAA: leaves

no herb. specimen? no

Oct. 31, 1972

2141

Panama, Prov. of Panama Colon  
Santa Rita, from 12 to 20  
km E of the carretera  
Transistmica -

9° 21' lat. North.

79° 43' long. West.

Calderonella citratica

Photo: 6 x 9 roll # 3

Fixed material: 3 vials

FAA = leaves, spores

3:1 = spore

Boisquet = spore -

Living plant: collected -

2142

Panamá, Prov. of Colón,  
Santa Rita, Near Agua  
Clara, rain gauge station,  
ca. 20 km E of the Carratera  
Transistmice.

9° 21' lat. North

79° 42' long. West

alt: 350-400 m. s. m.

Arseria peruviana

FAA - leaves & inflores.

3:1 - infl.

Bong - infl.

herb plant: collected.

no photo.

1 FAA col. material - 1:1.

In primary forest, shade.  
very humid slopes of a  
creek.

Oct. 31, 1972

2143

Panamá, Prov of Colón,  
Canta Rita,  $\pm$  18 Km E from  
the Carretera Transistmice  
Mayaguez *Tripsacum latifolium*  
Witch.

In a secondary growth of  
~~cleared~~  
~~pasture~~ forest.

FAA = leaves, inflorescences.

Nov. 1, 1972

K.M.O.

2144

Panamá, Panama Canal,  
Barro Colorado Island, A.  
Armour Trail 8,  
ca.  $79^{\circ} 51'$  long. West  
 $9^{\circ} 9' 50''$  lat. North

*Olyra latifolia*.

FAA = leaves -

Photo = roll # 3 b & w.



Nov. 1, 1976

Panama, Panama Canal <sup>2145</sup>  
<sup>Barro Colorado</sup> Is. Ar -

main trail 5-8 -

9° 09' 50" lat. North.

79° 51' long. West.

alt. 500 m. s. m.

Styptochaeta spicata

FAA. leaves, inflores -

Bong - inflores -



ultimo nase

3km de la lita hacia la  
apresa del Bayano.  
Prov. de Panamá.

Near Chepo (para Phap-  
Prov. Panoa miteia

1º nase como Jefe-

5 Km al N.E. de Cerro Jefe,  
La Encina - 800 m. s. m.  
Prov. Panama

Justin A. Roberts: 1890  
 Jefe - Mrs. Pandoine

Letina de Azuiz: Babuiza,  
al E de Toumouen - Prov.  
de Paranaqui -

Q. laterali : lerro

Sepe, ( $\pm 100$  m del Jardín de Roseto) al comienzo del camino de Cerro Sepe.

12. 1. 1958

Nov 3 - near Santa

2150 - Bamboo ?

2151 - *Olyra latifolia* - ? ✓

2152 - *Pharus noster* - ? ✓

2153 - *Stenotaphrum secundatum* ✓

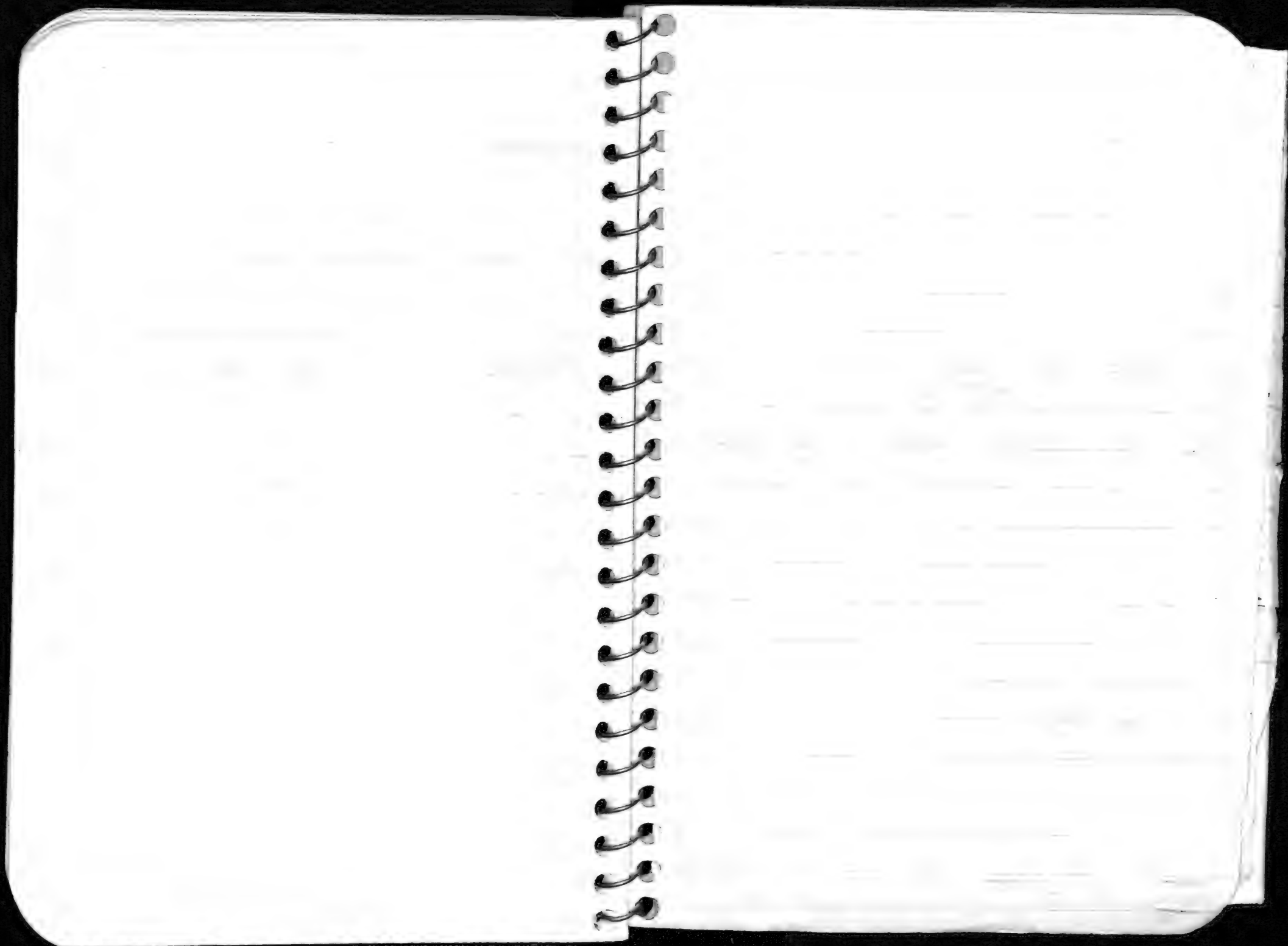
2154 - *Olyra noster*

2155 - (note present) Bamboo

2156 (Olyra - Bamboo)

2157 *Olyra peruviana* var. B.

2158 (on the summit of Phragmites)







Oct. 27. Santa Rita.

1<sup>o</sup> ~~lyps~~ 2130 - *Maculodytes* - Pl.

2131 - *Cryptallos* sp. - Pl.

2132 - *beles de Maculodytes*

2133 - *Pariana* 1<sup>a</sup> - Pl.

2134 - *Cryptallos chiquito* - Pl.

2135 - *Cryptallos denslevis* - Pl.

2136 - *Pariana florenta* - Pl.  
(male plant today.)

entire  
le. S. Rita.

Oct. 29. Cerro Tepe -

2137 - *Cryptallos*

2138 - *Maculodytes* - in a stage -

2139 - *Beauvoisia totensis*

2140 - *Bambusa*.

very many FRA.

Buenos Aires: FRA. hope, good under ?

Oct. 3. Santa Rita

2141 *Cryptallos* - FRA. By 3:1 Pl.

2142 *Artemisia*

2143 *Artemisia*

Nov. 1. Cerro Colorado

2144 - *Olyra* lat. ? Arroyo Trail ± 8

2145 *Styph. spicata*

2146 *Styph. foetidissima* (no fence!)

2147 *Pharus*.

2148 *Styph. sp.*

2149 *Pharus oliv.*

Oct. 21 Cerro Jefe

- 2121 - *Samolus trifidus* (vel. product) PL  
2122 <sup>b</sup> *Panicum nutans* var. *gigas* PL  
2122c) " " *rigens* & *longis*  
2123 *Olyra Stanley* - tiene *claves*  
*breves* (o *rigens* para *claves* -  
2124 - *Cryptochloa* (rigida) PL  
las *violaceas* y las *no violaceas*

Oct. 23: Cerro Campana

- 2125 *Cryptochloa* PL  
2126 *Flemingia*  
2127 *Pharus* PL  
2128 *Bambusa* (x *carinata*?)  
2129 *O. lateralis*

514 FM - *Lept. FAA* *ma*

515 " *Lept. B.*

516 *O. lateralis* FAA *gigas* *gigas*

517 " *Lept. FAA*

518 " *B.*

519 " *3:1*

520 *Bambusa* - FAA

521 *Lept. FAA* *gigas* *gigas*

522 *Lept. FAA*

523 *Pharus* *gigas*

524 *Bambusa*

ch crypt - FAA  
 " crypt B  
 200 0 trail - 200 FA  
 100 " 100 FA  
 ch - ch E B  
 100 " 3:1  
 50 Bamb - FAA  
 ch? Cryptoch - FAA  
 50 Telianthus "  
 50? Pharus "  
 50 Bamb. minor "  
 ch 50 Hecleria "  
 ch? " 3:1  
 50 " Bibes FAA  
 ch? Cryptoch - FAA  
 ch crypt. dig - FAA  
 50? crypt. band - FAA  
 ch " " 3:1  
 ch? " " B?  
 100? Panone 12 FAA  
 50 ch " " 3:1  
 -50? " 22 FAA  
 -ch? " " B  
 -50 " " 3:1  
 -ch? crypt - Europe FAA  
 200 lata apical  
 ch - FAA lateral

2 ch. light viol

2 + 1 ch 150

FAA 31:  
Calculation

1	ch	B lateralis	3:1
1	50	Bambu	FAA
1	50?	Coleroneella	FAA
1	ch	"	3:1
1	ch	"	B
1	50?	Asteria	FAA
1	ch	"	B
1	200?	"	3:1
1	50	Marilia	FAA
1	ch	Strep. spic	FAA
1	100?	O. latifolia?	"
1	50?	Strep. f. fad.	"
1	50	Plenus?	"
1	50	Strep. f. fad.	"
1	50	Orfiodora	"
1	50	Strep. f. fad.	"
1	50 ch?	Strep. f. fad.	"
1	ch	O. latif	"
1	50	Plenus	"
1	100	Strep. f. fad.	"
1	100?	"	"
1	ch	"	3:1
1	50	Bambu f. fad.	B
1	50	Strep. f. fad.	FAA
1	ch	Olyp - Bamb.	"
1	ch	Olyp - Bamb.	"
1	100	Olyp - Bamb.	"
1	100	Phosphat	"

Former No.Present No.

26

22

27

23

28

24

29

25

30

26

31

27

32

28

33

29

34

30

35

31

36

32

37

33

38

34

39

35

40

36

41

Color slides  
No number

42

37

43

38



C.E.C.   1968   TROPICAL AMERICA

Former No.

Present No.

1	1
2	2
3	3
4	4
6	5
8	6
9	7
11	8
12	9
13	10
14	11
15	12
16	Color slides No number
17	13
18	14
19	Color slides No number
20	15
21	16
21a	17
22	18
23	19
24	20
25	21



6 Jefe

514 FAA. 1<sup>o</sup> Cryptol.

515 B " Lys

516 O. Stanley FAA, Lys, tellos, rinct.

517 " J FAA, inflores.

518. " B - fl. ♀

519 " 3:1 inflores. (♂, ♀)

520 ~~Baccharis~~ (Zami. B.S.) FAA, Lys

521 Crypt. de comp - FAA <sup>comp</sup>

522 ~~Technisatus~~ FAA, inf, Lys

523 Pharus comp FAA, Lys

524 Baccharis (tellos naranjo) FAA "

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En J. 3:1 fl. (4 flores)

Tecto - Paniana 1<sup>a</sup>, Paniana 2

Cryptol. violeta

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~~En J.~~

Calceola FAA, B,

Artemis, FAA, B

Maitica FAA

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May (Barro Colorado) en franco nitro  
FAA: Lys Stup. foliar y stip  
que plantas (floreas al aparecer)

